

Several Significant Fault Recoveries and the Operation Status of the PLS-II

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PLS-II has been upgraded from PLS (Pohang Light Source) from 2011. There are two important changes. At first electron beam energy changed from 2.5 GeV to 3.0 GeV. The other is operation mode from decay to top-up. For them, RF systems in the storage ring were changed from 5 normal conducting cavities to 3 superconducting cavities. And the superconducting system is the largest fault source in operation by several big issues related in cryogenic systems. On the 15th of November, an earthquake occurred 9 km away from the facility with a magnitude 5.4. It also took 21 days to recover all of the systems related in the electric power problem. And another big problem was the overheating of the magnets. Including these problems, this report will describe the operation status of the PLS-II with various operational parameters

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